



PCT09

DATE: 03/13/2002 *LS*

TIME: 13:52:58

Output Set: N:\CRF3\03132002\I857308.raw

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,308

DATE: 03/13/2002

TIME: 13:52:58

Input Set : A:\0020-4872P.ST25.txt

Output Set: N:\CRF3\03132002\I857308.raw

```

53 Asp Tyr His Ser Tyr Met Leu Gln Ile Ser Lys Gln Leu Ser Glu Glu
54          245          250          255
55 Tyr Glu Arg Ile Val Asn Pro Glu Lys Ala Thr Glu Asp Ala Lys Pro
56          260          265          270
57 Val Lys Ile Lys Glu Glu Pro Val Ser Asp Ile Thr Phe Pro Val Ser
58          275          280          285
59 Glu Glu Leu Glu Ala Asp Leu Ala Ser Gly Asp Gln Ser Leu Pro Met
60          290          295          300
61 Gly Val Leu Gly Ala Gln Ser Glu Arg Phe Pro Ser Asn Leu Glu Val
62 305          310          315          320
63 Glu Ala Ser Pro Gln Ala Ser Ser Ala Glu Val Asn Ala Ser Pro Leu
64          325          330          335
65 Trp Asn Leu Ala His Val Lys Met Glu Pro Gln Glu Ser Glu Glu Gly
66          340          345          350
67 Asn Val Ser Gly His Gly Val Leu Gly Ser Asp Val Phe Glu Glu Pro
68          355          360          365
69 Met Ser Gly Met Ser Glu Ala Gly Ile Pro Gln Ser Pro Asp Asp Ser
70          370          375          380
71 Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser Leu Met Gly Ser Ser
72 385          390          395          400
73 Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met Arg Lys Ile
74          405          410
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 1711
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 2
82 acgcgacccct tgcctcaggc ctctcgaggt ccagacagcc gccagcccg ctctgcgacg 60
83 cagcagtgaa tagtgtggtta cctccttgct tcggttcagg tccagacct cccgtcttcc 120
84 ggctgccctg aacgtcaggc gacctcagga ccctgtgatt ggcgcctgcg ccggcgagcc 180
85 gtgaccgagg aaaccccttg agggacttgg gcattccttg ggctccgtgc ctgttcttcg 240
86 tgctcctttc gggcaaggat ctcacattat cagtctttga ccgacacaga atgcctggca 300
87 tttgataaat gtttgttgaa cttgaagaga catatggaca atg aat ctg caa aga 355
88          Met Asn Leu Gln Arg
89          5
90 tac tgg gga gag ata cca ata tca tca agc cag acc aac aga agt tcc 403
91 Tyr Trp Gly Glu Ile Pro Ile Ser Ser Ser Gln Thr Asn Arg Ser Ser
92          10          15          20
93 ttc gat ttg ctc cca cgg gag ttc cgt ctg gtg gaa gtc cat gac cca 451
94 Phe Asp Leu Leu Pro Arg Glu Phe Arg Leu Val Glu Val His Asp Pro
95          25          30          35
96 ccc ctg cac caa ccc tca gcc aac aag ccg aag ccc ccc act atg ctg 499
97 Pro Leu His Gln Pro Ser Ala Asn Lys Pro Lys Pro Pro Thr Met Leu
98          40          45          50
99 gac atc ccc tca gag cca tgt agt ctc acc atc cat acg att cag ttg 547
100 Asp Ile Pro Ser Glu Pro Cys Ser Leu Thr Ile His Thr Ile Gln Leu
101          55          60          65
102 att cag cac aac cga cgt ctt cgc aac ctt att gcc aca gct cag gcc 595
103 Ile Gln His Asn Arg Arg Leu Arg Asn Leu Ile Ala Thr Ala Gln Ala

```

## RAW SEQUENCE LISTING

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104	70		75		80		85	
105	cag	aat	cag	cag	aca	gaa	ggt	gta
106	Gln	Asn	Gln	Gln	Thr	Glu	Gly	Val
107				90			95	
108	ctt	ccc	tcg	tgc	cct	ggg	tca	cct
109	Leu	Pro	Ser	Cys	Pro	Gly	Ser	Pro
110				105			110	
111	tta	gat	tgt	aag	aat	ccc	aat	gca
112	Leu	Asp	Cys	Lys	Asn	Pro	Asn	Ala
113				120			125	
114	cca	gag	agt	gac	ttt	tat	cgt	ggg
115	Pro	Glu	Ser	Asp	Phe	Tyr	Arg	Gly
116				135			140	
117	agc	tgg	cac	tcc	tgt	cgg	cag	ctc
118	Ser	Trp	His	Ser	Cys	Arg	Gln	Leu
119	150				155			160
120	ctg	gcc	cac	gcg	ggc	ttt	gac	tgt
121	Leu	Ala	His	Ala	Gly	Phe	Asp	Cys
122				170			175	
123	cta	act	gat	gtg	gca	cat	gag	tat
124	Leu	Thr	Asp	Val	Ala	His	Glu	Tyr
125				185			190	
126	cgt	ttt	gct	gtg	gac	cgg	gag	gcc
127	Arg	Phe	Ala	Val	Asp	Arg	Glu	Ala
128				200			205	
129	gat	gtg	atg	gag	cag	gta	ttc	cat
130	Asp	Val	Met	Glu	Gln	Val	Phe	His
131				215			220	
132	tcc	ctc	cag	aag	ttc	tgg	cag	cac
133	Ser	Leu	Gln	Lys	Phe	Trp	Gln	His
134	230				235			240
135	atg	cta	cag	att	agt	aag	caa	ctc
136	Met	Leu	Gln	Ile	Ser	Lys	Gln	Leu
137				250			255	
138	aat	cct	gag	aag	gcc	aca	gag	gac
139	Asn	Pro	Glu	Lys	Ala	Thr	Glu	Asp
140				265			270	
141	gaa	cct	gtg	agc	gac	atc	act	ttt
142	Glu	Pro	Val	Ser	Asp	Ile	Thr	Phe
143				280			285	
144	gac	ctt	gct	tct	gga	gac	cag	tca
145	Asp	Leu	Ala	Ser	Gly	Asp	Gln	Ser
146				295			300	
147	cag	agc	gaa	cgc	ttc	cca	tct	aac
148	Gln	Ser	Glu	Arg	Phe	Pro	Ser	Asn
149	310				315			320
150	gct	tca	agt	gca	gag	gta	aat	gct
151	Ala	Ser	Ser	Ala	Glu	Val	Asn	Ala
152				330			335	

## RAW SEQUENCE LISTING

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Input Set : A:\0020-4872P.ST25.txt

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```

153 gtg aaa atg gag cct caa gaa agt gaa gaa ggc aat gtc tct ggg cat      1411
154 Val Lys Met Glu Pro Gln Glu Ser Glu Glu Gly Asn Val Ser Gly His
155          345          350          355
156 ggt gtg ctg ggc agt gat gtc ttc gag gag cct atg tca ggc atg agt      1459
157 Gly Val Leu Gly Ser Asp Val Phe Glu Glu Pro Met Ser Gly Met Ser
158          360          365          370
159 gaa gct ggg att cct cag agc cct gat gac tca gat agc agc tat ggt      1507
160 Glu Ala Gly Ile Pro Gln Ser Pro Asp Asp Ser Ser Ser Tyr Gly
161          375          380          385
162 tcc cac tcc act gac agc ctc atg ggg tcc tcc cct gtt ttc aac cag      1555
163 Ser His Ser Thr Asp Ser Leu Met Gly Ser Ser Pro Val Phe Asn Gln
164 390          395          400          405
165 cgc tgc aag aag agg atg agg aaa ata taaaaggaaa agaggggagat      1602
166 Arg Cys Lys Lys Arg Met Arg Lys Ile
167          410
168 gttttgtcca gacctactag acccaacaga aaagggttttt gtattagaat ctgttttcctt      1662
169 aaaaattgat ttgactcctg ttcttaaaaa aaaaaaaaaa aaaaaaaaaa      1711
171 <210> SEQ ID NO: 3
172 <211> LENGTH: 10
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 3
177 Gly Phe Asp Cys Ala Asn Glu Ser Val Leu
178          5          10
180 <210> SEQ ID NO: 4
181 <211> LENGTH: 9
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 4
186 Glu Tyr Cys Leu Lys Phe Thr Lys Leu
187          5
189 <210> SEQ ID NO: 5
190 <211> LENGTH: 8
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 5
195 Leu Tyr Gln Ala Val Ala Thr Ile
196          5
198 <210> SEQ ID NO: 6
199 <211> LENGTH: 9
200 <212> TYPE: PRT
201 <213> ORGANISM: Homo sapiens
203 <400> SEQUENCE: 6
204 Ser Phe Asp Leu Leu Pro Arg Glu Phe
205          5
207 <210> SEQ ID NO: 7
208 <211> LENGTH: 11
209 <212> TYPE: PRT
210 <213> ORGANISM: Homo sapiens

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
Input Set : A:\0020-4872P.ST25.txt

Output Set: N:\CRF3\03132002\I857308.raw

```

212 <400> SEQUENCE: 7
213 Ser Phe Asp Leu Leu Pro Arg Glu Phe Arg Leu
214          5          10
216 <210> SEQ ID NO: 8
217 <211> LENGTH: 9
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 8
222 Leu Tyr Gln Ala Val Ala Thr Ile Leu
223          5
225 <210> SEQ ID NO: 9
226 <211> LENGTH: 10
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 9
231 Glu Tyr Cys Leu Lys Phe Thr Lys Leu Leu
232          5          10
234 <210> SEQ ID NO: 10
235 <211> LENGTH: 10
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 10
240 Arg Phe Ala Val Asp Met Glu Gln Val Phe
241          5          10
243 <210> SEQ ID NO: 11
244 <211> LENGTH: 10
245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 11
249 Pro Phe Pro Asp Val Met Glu Gln Val Phe
250          5          10
252 <210> SEQ ID NO: 12
253 <211> LENGTH: 11
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens
257 <400> SEQUENCE: 12
258 Val Phe His Glu Val Gly Ile Gly Ser Val Leu
259          5          10
261 <210> SEQ ID NO: 13
262 <211> LENGTH: 9
263 <212> TYPE: PRT
264 <213> ORGANISM: Homo sapiens
266 <400> SEQUENCE: 13
267 Asp Tyr His Ser Tyr Met Leu Gln Ile
268          5
270 <210> SEQ ID NO: 14
271 <211> LENGTH: 10
272 <212> TYPE: PRT
273 <213> ORGANISM: Homo sapiens

```


 Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 03/13/2002

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20

L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21

09857308-060101